

TITLE 83: PUBLIC UTILITIES
CHAPTER I: ILLINOIS COMMERCE COMMISSION
SUBCHAPTER C: ELECTRIC UTILITIES

PART XXX
INTERCONNECTION OF DISTRIBUTED RESOURCES
TO ELECTRIC UTILITY DISTRIBUTION SYSTEMS

Section XXX.010	Definitions
Section XXX.020	Purpose
Section XXX.030	Applicability
Section XXX.040	General Provisions
Section XXX.050	Project Filing Fee
Section XXX.060	Additional Services Provided By the Interconnection Provider
Section XXX.070	Simplified Interconnection Procedure
Section XXX.080	Expedited Interconnection Procedure
Section XXX.090	Standard Interconnection Procedure
Section XXX.100	Installation, Commissioning, and Testing
Section XXX.110	Metering
Section XXX.120	Contact Persons and Information
Section XXX.130	Reporting Requirements
Section XXX.140	Dispute Resolution Process
Section XXX.150	Compliance

AUTHORITY: Implementing Section 9-241 and authorized by Section 10-101 of the Public Utilities Act [220 ILCS 5/9-241 and 10-101].

SOURCE: Adopted at ____ Ill. Reg. _____, effective _____.

Section XXX.010 Definitions

"Adverse System Impact" means any negative effect due to technical or operational limits on conductors or equipment being exceeded that may compromise the safety and reliability of the distribution system.

"Affected Systems" means any distribution system not owned or operated by the interconnection provider, that is either directly or indirectly connected to the interconnection provider's distribution system and could be adversely affected by the interconnection and parallel operation of the interconnection customer's distributed resource.

"Agreement" means an interconnection and parallel operation agreement for a distributed resource by and between the interconnection provider and the interconnection customer.

"Business Day" means Monday through Friday except for State of Illinois holidays.

"Distributed Resource" means equipment that can become a source of electric power, including but not limited to generators and/or energy storage technologies.

"Distribution System" means the structures, equipment, and facilities operated by an Interconnection Provider to deliver electricity to end users, but it excludes transmission facilities that are subject to the jurisdiction of the FERC.

"Export Power" means power generated by a distributed resource that is transmitted onto the distribution system. "Non-Export" is the design of a distributed resource to ensure that it does not "Export Power or adversely impact the distribution system."

"FERC" means the Federal Energy Regulatory Commission

"IEEE" means Institute of Electrical and Electronics Engineers, Inc.

"Interconnection Customer" means any entity proposing to interconnect a distributed resource to an interconnection provider's system or any entity that has entered into a valid interconnection agreement with an interconnection provider.

"Interconnection Facilities" shall mean the interconnection provider's interconnection facilities and the interconnection customer's interconnection facilities. Collectively, interconnection facilities include all facilities and equipment between the distributed resource and the point of interconnection, including any modification, additions or upgrades that are necessary to physically and electrically interconnect the distributed resource to the interconnection provider's distribution system. Interconnection facilities are sole use facilities and shall not include distribution facilities or network upgrades.

"Interconnection Provider" means a public utility as defined by the Public Utilities Act [220 ILCS 5], that controls a distribution system.

"Line Section" means a section of the distribution system connected to an Interconnection Customer that is bounded by sectionalizing devices or the end of the line.

"Parallel Operation" means the operation of a distributed resource connected to an interconnection provider's distribution system for a period of 60 seconds (3600 cycles) or more.

"Point of Common Coupling (PCC)" means the point where the interconnection customer's local power system connects to the interconnection provider's distribution system, such as the electric power revenue meter or a premises service transformer.

"Point of Interconnection" shall mean the point, as set forth in the interconnection agreement, where the interconnection customer's distributed resource connects to the interconnection provider's interconnection facilities.

"Radial Distribution Circuit" means a distribution line that branches out from a substation and is normally not connected to another substation or another circuit sharing the common supply of electric power.

"System Modifications" mean modifications or additions to the interconnection provider's facilities that are integrated with the interconnection provider's distribution system for the benefit of the interconnection customer.

"UL" means Underwriters Laboratory, Inc.

"Upgrades" means the required additions and modifications to the interconnection provider's distribution system at or beyond the point at which the distributed resource connects to the distribution system. Upgrades do not include interconnection facilities.

Section XXX.020 Purpose

This Part states the terms and conditions that govern the interconnection and parallel operation of distributed resources in order to give all Illinois electric customers the ability to utilize distributed resources.

Section XXX.030 Applicability

- a) All interconnection providers are required to comply with the provisions in this Part. The interconnection procedures in this Part are available to interconnection customers proposing to interconnect distributed resources to the interconnection provider's distribution system. This Part applies to all distributed resource interconnections operating in parallel to an interconnection provider's distribution system except those interconnections within the exclusive jurisdiction of the FERC. This Part does not apply to distributed resources that are operated in isolation from a distribution system.
- b) Neither these procedures nor the requirements included in this Part apply to distributed resources interconnected or approved for interconnection with distribution systems prior to 60 business days after the effective date of this Part.

Section XXX.040 General Provisions

- a) Depending on the circumstances of the proposed interconnection, an interconnection customer shall use one of the following three interconnection procedures: A Simplified Interconnection under Section XXX.070 of this Part, an Expedited Interconnection under Section XXX.080 of this Part, or a Standard Interconnection under Section XXX.090 of this Part.
- b) If the proposed interconnection is for multiple distributed resources, for which the interconnection customer seeks a single point of interconnection, the

proposed interconnection shall be evaluated on the basis of the aggregate capacity of the multiple distributed resources.

c) If the proposed interconnection is for an increase in capacity for an existing distributed resource, the proposed interconnection shall be evaluated on the basis of the new total capacity of the distributed resource.

d) Within one year of the effective date of this Part, every interconnection provider shall publish standard design practices for typical interconnection projects that are in accordance with this rule, yet applicable to their distribution systems. Such design practices shall include acceptable one line diagrams and the reliability and safety issues addressed by the one line diagram designs. Every interconnection provider periodically shall update these design practices.

e) All applications for interconnection made under this Part shall be date and time-stamped upon receipt. The original date and time-stamp applied to the application at the time of its original submission for interconnection shall be accepted as the qualifying date and time-stamp for the purposes of any timetable in this Part.

f) Except as provided in Section XXX.130 below, the interconnection provider shall treat the application and any communications concerning the nature of the proposed distributed resource interconnection confidentially. The interconnection provider shall not use knowledge of proposed distributed resource projects submitted to it for interconnection or study to prepare competing proposals to the interconnection customer that offer either discounted rates in return for not installing the distributed resource, to offer competing proposals to install distributed resource, or for any purpose other than facilitating the application and interconnection processes. The interconnection provider shall not share any confidential information about proposed distributed resource interconnections with its affiliates or any party other than the interconnection customer and its approved representatives.

g) The interconnection provider shall process and review all applications in a non-discriminatory manner. Applications shall be processed in the order that they are determined to be complete. The interconnection provider shall not discriminate among similar proposed interconnections of distributed resources when requiring system modifications, upgrades, or changes to interconnection facilities.

h) The interconnection customer shall submit proof of site control to the interconnection provider with its distributed resource interconnection application. Site control shall be demonstrated through:

- 1) a recorded deed, recorded lease or recorded agreement proving ownership of, a leasehold interest in, or a right to develop a site for the purpose of constructing a distributed resource; or
 - 2) a recorded option to purchase/acquire a site and/or a leasehold interest in a site for such purpose.
- i) The interconnection provider shall assess no administrative charges (other than the filing fee) to the interconnection customer for handling the interconnection application.
 - j) Submissions and notices under this Section shall be satisfied by electronic mail, facsimile, U.S. Mail, or another mutually agreed upon method.

Section XXX.050 Project filing fee.

- a) An interconnection customer shall pay the interconnection provider a filing fee (submitted with the application) calculated as \$0.50 per kilowatt of project capacity, but in no event shall the amount of the fee be less than \$100 or more than \$500.
- b) An interconnection provider may not charge additional fees, unless they are authorized by these rules.

Section XXX.060 Additional Services Provided by the Interconnection Provider.

- a) The interconnection procedures in each interconnection provider's tariff filed pursuant to this Part shall state the conditions in which engineering studies or physical construction or modification of the interconnection provider's distribution system are required to facilitate or complete an interconnection. If any of these services are necessary, the interconnection provider and the interconnection customer shall make a written agreement that sets forth the charges and other terms and conditions.
- b) The interconnection procedures in each interconnection provider's tariff shall set forth a uniform schedule of charges for engineering studies and meetings. The charges shall not exceed ten thousand dollars.
- c) The interconnect procedures shall not require, or impose any charges (apart from the filing fee) for review of engineering studies submitted & approved under the Simplified and/or Expedited procedures.

Section XXX.070 Simplified Interconnection Procedure

a) Interconnection customers that desire to interconnect distributed resources using a qualified inverter shall be processed for Simplified Interconnection if the proposed interconnection meets the following conditions:

- 1) The point of common coupling for the distributed resource is on a radial distribution circuit;
- 2) Including the proposed distributed resource, the aggregated generation on the radial distribution circuit is less than 7.5% of circuit peak load;
- 3) The inverter for the proposed distributed resource is UL 1741 listed, and has a power rating of 10 kW or less.

b) "Simplified" Application process

1) The interconnection customer commences the Simplified Interconnection process by submitting a properly completed Simplified Application in the form set forth in Appendix A to the interconnection provider;

2) The interconnection provider shall acknowledge receipt of the Simplified Application within 3 business days of receipt.

3) The interconnection provider shall, within 10 business days of receipt of the Simplified Application:

i) Evaluate the application for completeness, including verification that the distributed resource meets the criteria set forth in subsection (a) above;

ii) If the application is complete, sign the application approval line and return it to the interconnection customer.

iii) If the application is not complete, specify what is missing from the application and return the incomplete application to the interconnection customer. The interconnection customer shall have 20 business days after receipt of the notice to submit the listed information. If the interconnection customer does not provide the listed information within the 20 business day deadline, the application shall be considered withdrawn. An application shall be considered complete upon submission of the requested information to the interconnection provider.

iv) If the interconnection provider determines that system modifications are necessary, the interconnection provider shall specify the nature and cost of these modifications.

4) Within 3 business days after installation of the distributed resource, the interconnection customer shall notify the interconnection provider of the completed installation (Certificate of Completion). If the interconnection customer does not complete construction and installation within 12 months after receiving approval from the interconnection provider, the interconnection provider may require the interconnection customer to reapply for interconnection.

5) The interconnection provider shall have the right to inspect the interconnected distributed resource and may arrange for a witness test to confirm compliance with applicable codes and standards, which the interconnection provider must complete within 10 days of the interconnection customer's notification that the distributed resource is installed (Certificate of Completion). If the interconnection provider does not inspect within 10 days or by mutual agreement of the parties, the witness test is deemed waived. If the witness test determines that the interconnection does not comply with applicable codes and standards, the interconnection provider has the right to disconnect the distributed resource. The interconnection customer has no right to operate in parallel until a witness test has been performed or previously waived on the Simplified Application.

6) If the witness test is satisfactory, the interconnection provider shall authorize the interconnection customer in writing within 5 days of the witness test to operate the distributed resource in parallel with the distribution system.

c) If the proposed interconnection does not meet the Simplified Interconnection criteria, the proposed interconnection may be reconsidered under the Expedited Interconnection Procedure in subpart XXX.080 of this Part.

Section XXX.080 Expedited Interconnection Procedure.

a) Interconnection customers that desire to interconnect a distributed resource that meets the following criteria shall be processed under the Expedited Interconnection Procedure set forth in this section:

1) The distributed resource meets the requirements outlined in IEEE 1547 Standard for Interconnecting Distributed Resources with Electric Power Systems.

2) For interconnection of a proposed distributed resource to a radial distribution circuit, the aggregated generation on the circuit, including the proposed distributed resource, will not exceed 15 percent of the line section annual peak load as most recently measured at the substation.

3) For interconnection of a proposed distributed resource to a secondary network on the load side of any network protector(s), the proposed distributed resource must not exceed 50% of the minimum load on the network protector(s) and must comply with all requirements of approved industry standards.

4) For the interconnection of a proposed distributed resource to any secondary network, the distributed resource must utilize a protective scheme, such as reverse power or under-power relays or some other comparable protection, that ensures that the distributed resource will not adversely affect the normal operation of network protectors. A distributed resource interconnected to a network under these Expedited Interconnection procedures shall not be designed to export power.

5) The proposed distributed resource, in aggregation with other generation on the distribution circuit, will not contribute more than 10% to the distribution circuit's maximum fault current at the point on the high voltage (primary) level nearest the proposed point of common coupling.

6) The proposed distributed resource, in aggregate with other generation on the distribution circuit, will not cause any distribution protective devices and equipment (including, but limited, to substation breakers, fuse cutouts, and line reclosers), or interconnection customer equipment on the system to exceed 87.5% of the short circuit interrupting capability; nor is the interconnection proposed for a circuit that already exceeds 87.5% of the short circuit interrupting capability.

7) The table below shall be used to determine the type of interconnection. This screen includes a review of the type of electrical service provided to the interconnection customer, including line configuration and the transformer connection to limit the potential for creating over voltages on the interconnection provider's distribution system due to a loss of ground during the operating time of any anti-islanding function.

Primary Distribution Line Type	Type of Interconnection to Primary Distribution Line	Result/Criteria
Three-phase, three wire	3-phase or single phase, phase-to-phase	Pass screen
Three-phase, four wire	Effectively-grounded 3 phase or Single-phase, line-to-neutral	Pass screen

8) If the proposed distribution resource is to be interconnected on single-phase shared secondary, the aggregate generation capacity on the shared secondary, including the proposed distribution resource, will not exceed 20 kW.

9) If the proposed distribution resource is single-phase and is to be interconnected on a center tap neutral of a 240 volt service, its addition will not create an imbalance between the two sides of the 240 volt service of more than 20% of the nameplate rating of the service transformer.

b) "Expedited" Application Process

1) The interconnection customer commences the Expedited Interconnection process by submitting an application in the form of Appendix B to the interconnection provider. The interconnection provider shall issue a notification of receipt to the interconnection customer within 3 business days after receipt of the interconnection customer's application. The interconnection provider shall notify the interconnection customer, within 10 business days after receipt of the application, that the application is either complete or incomplete.

2) If the application is incomplete, the interconnection provider shall provide, along with the notice that the application is incomplete, a list detailing all information necessary to complete the application. The interconnection customer shall have 20 business days after receipt of the notice to submit the listed information. If the interconnection customer does not provide the listed information within the 20 business day deadline, the application shall be deemed withdrawn. An application shall be considered complete upon submission of the listed information to the interconnection provider.

3) Certain applications may require minor modifications while being reviewed by the interconnection provider. Such minor modifications to a pending application shall not require the filing of a new application. Any proposed modification to machine data or equipment configuration or to the interconnection site of the distributed resource by the interconnection customer not agreed to in writing by the interconnection provider and the interconnection customer shall be deemed a withdrawal of the application and shall require submission of a new application. However, when it is mutually agreed that machine data or equipment configuration modifications shall have no significant effect on the distributed resource interconnection, the interconnection provider shall not require the interconnection customer to submit a new application.

c) Initial review and determination of the application

1) The interconnection provider shall review the application using the criteria set forth subsection (a) above. The interconnection provider shall notify the interconnection customer in writing of the results of the review and determination within 15 days of the interconnection provider's notice that it has received a complete application. The notification shall include copies of the initial review results, analysis, and data underlying the interconnection provider's determination.

2) If the interconnection provider determines that the proposed interconnection passes the criteria set forth in subsection (a) above, the interconnection provider shall approve the interconnection application and the interconnection provider shall issue the interconnection customer an executable interconnection agreement in the form set forth in Appendix C within 10 business days after the determination, and installation of the distributed resource shall proceed according to Section XXX.100 of this Part.

3) If the interconnection provider determines that the proposed interconnection does not meet all of the criteria set forth in subsection (a) above, but determines:

i) that the distributed resource may nevertheless be interconnected consistent with safety, reliability, and power quality standards, the interconnection provider shall issue the interconnection customer an executable interconnection agreement in the form set forth in Appendix C within 10 business days after the determination, and the installation of the distributed resource shall proceed according to the provisions of the interconnection agreement.

ii) if the interconnection provider determines from the initial review that the distributed resource cannot be interconnected consistent with safety, reliability, and power quality standards unless the interconnection customer is willing to consider modifications to the distributed resource, the interconnection provider shall describe, in writing or through electronic mail within 10 business days after the determination, the issues to be addressed prior to the distributed resource interconnection. The interconnection provider shall include copies of data, analyses and results underlying the interconnection provider's determination of the need for distributed resource modifications. Within 30 business days of receipt of interconnection provider's list of issues to be addressed, or such longer period of time mutually agreed to by the parties, the interconnection customer shall provide written notification agreeing to address the issues raised by the interconnection provider. The interconnection provider shall forward an executable interconnection agreement in the form set forth in

Appendix C to the interconnection customer within 10 business days after receipt of confirmation that the interconnection customer has agreed to make the necessary changes to the interconnection customer's facilities at the interconnection customer's cost. Interconnection of the distributed resource shall proceed according to Section XXX.100 of this Part.

iii) if the interconnection provider determines from the review that the distributed resource cannot be interconnected consistent with safety, reliability, and power quality standards unless the interconnection customer is willing to assume the cost of modifications (e.g., changing meters, fuses, relay settings) to the interconnection provider's system or facilities, the interconnection provider shall recommend, in writing or through electronic mail within 10 business days after the determination, the system or facility modifications necessary for the interconnection customer to interconnect with the interconnection provider's system. These recommendations shall include copies of data and analyses underlying the interconnection provider's determination of the need for system or facilities modifications, a detailed explanation of the necessary system or facility modifications, an estimated time for the completion of the system or facility modifications and a single estimate of the cost to complete the system or facility modifications. Within 30 business days of receipt of the interconnection provider's notice of the need for modifications and cost estimate, the interconnection customer shall establish a payment schedule for the system upgrades in accordance with the provisions of Section XXX.090 "Standard Interconnection Procedure" subsection (f) "System Upgrade Payments". The interconnection customer shall also choose either a binding cost estimate or a cost estimate with final true up. The interconnection provider shall forward an executable interconnection agreement in the form set forth in Appendix C to the interconnection customer within 10 business days of receipt of payment from the interconnection customer for system or facility modifications. Interconnection of the distributed resource shall proceed according to the provisions of Section XXX.100 of this Part.

4) If the initial review determines that the proposed interconnection does not meet the criteria set forth in subsection (a) above, and that the proposed interconnection cannot be addressed by modifications to the proposed distributed generation resource or interconnection provider's system or facilities, the proposed interconnection shall be addressed under section XXX.090 of this part, Standard Interconnection Procedure.

Section XXX.090 Standard Interconnection Procedure

An interconnection request to interconnect a distributed resource that does not qualify for either the Simplified Interconnection Procedure in Section XXX.070 of this Part or the Expedited Interconnection Procedure in Section XXX.080 of this Part shall be processed under the procedures of this section.

a) "Standard" Application Process.

1) The interconnection customer commences the Standard Interconnection process by submitting an application in the form of Appendix B to the interconnection provider. The interconnection provider shall issue a notification of receipt to the interconnection customer within 3 business days after receipt of the interconnection customer's application. The interconnection provider shall notify the interconnection customer, within 10 business days after receipt of the application, that the application is either complete or incomplete.

2) If the application is incomplete, the interconnection provider shall provide, along with the notice that the application is incomplete, a list detailing all information necessary to complete the application. The interconnection customer shall have 20 business days after receipt of the notice to submit the listed information. If the interconnection customer does not provide the listed information within the 20 business day deadline, the application shall be deemed withdrawn. An application shall be considered complete upon submission of the listed information to the interconnection provider.

3) Certain applications may require minor modifications while being reviewed by the interconnection provider. Such minor modifications to a pending application shall not require the filing of a new application. Any proposed modification to machine data or equipment configuration or to the interconnection site of the distributed resource by the interconnection customer not agreed to in writing by the interconnection provider and the interconnection customer shall be deemed a withdrawal of the application and shall require submission of a new application. However, when it is mutually agreed that machine data or equipment configuration modifications shall have no significant effect on the distributed resource interconnection, the interconnection provider shall not require the interconnection customer to submit a new application.

b) Scoping Meeting

1) A scoping meeting shall be held within 10 business days, or as otherwise mutually agreed to by the parties, after the interconnection provider notifies the interconnection customer that the application is complete. The interconnection provider and interconnection customer

shall bring to the scoping meeting, or make available via teleconferencing, personnel, including system engineers, and other resources required to accomplish the purpose of the meeting.

2) The purpose of the scoping meeting shall be to review the interconnection customer's interconnection request and to review existing studies, other information relevant to the interconnection customer's proposed interconnection, and, if relevant, the results of the application of the screening criteria in the Simplified or Expedited Interconnection Process.

3) The interconnection provider shall not charge any fee to conduct the initial scoping meeting.

4) If the parties agree at the scoping meeting that no further studies are needed to proceed with the interconnection, and the parties agree on the terms and conditions of the interconnection, the interconnection provider shall issue the interconnection customer an executable interconnection agreement in the form set forth in Appendix C within 10 business days after the scoping meeting, and installation of the distributed resource shall proceed according to Section XXX.100 of this Part..

5) If the parties agree at the scoping meeting that an interconnection feasibility study needs to be performed, the interconnection provider shall provide the interconnection customer, no later than 5 business days after the scoping meeting, an interconnection feasibility study agreement including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.

6) If the parties agree at the scoping meeting that an interconnection feasibility study does not need to be performed, but either an interconnection system impact study or a combined single interconnection feasibility/system impact study needs to be performed, the interconnection provider shall provide the interconnection customer, no later than 5 business days after the scoping meeting, the appropriate study agreements including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.

7) If the parties agree at the scoping meeting that an interconnection feasibility study and system impact study do not need to be performed, but rather an interconnection facilities study needs to be performed, the interconnection provider shall provide interconnection customer, no later than 5 business days after the scoping meeting, an interconnection facilities study agreement including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.

8) If two or more studies are combined into a single study, the deadlines set forth in this section for the completion of a single study shall apply to the combined study.

c) Interconnection Feasibility Study

1) Within 30 business days of receipt of the interconnection feasibility study agreement or another mutually agreed upon time frame, the interconnection customer shall return an executed feasibility study agreement to the interconnection provider.

2) An interconnection feasibility study will include the following analyses for the purpose of identifying a potential adverse system impact to interconnection provider's distribution system that would result from the interconnection: (1) initial identification of any circuit breaker short circuit capability limits exceeded as a result of the interconnection, (2) initial identification of any thermal overload or voltage limit violations resulting from the interconnection, (3) initial review of grounding requirements and system protection, and (4) description and non-binding estimated cost of facilities required to interconnect the distributed resource to interconnection provider's distribution system in a safe and reliable manner.

3) If the interconnection customer asks that the interconnection feasibility study evaluate multiple potential points of interconnection, additional evaluations may need to be performed. All such evaluations are to be paid for by the interconnection customer.

4) Within 45 business days after the date that the interconnection provider receives an executed feasibility study agreement, the interconnection provider shall transmit an interconnection feasibility study report to the interconnection customer. The report shall detail the results of the feasibility study and will include, if requested by the interconnection customer when the feasibility study agreement was executed, a true up of the difference between the actual and estimated cost to perform the feasibility study.

5) An interconnection system impact study shall not be required if the interconnection feasibility study indicates no adverse system impact or if it identifies an adverse system impact, but the interconnection provider is able to identify a remedy without the need for an interconnection system impact study. Otherwise an interconnection system impact study shall be required, unless it was performed in conjunction with the interconnection feasibility study.

d) Interconnection System Impact Study

- 1) If an interconnection system impact study is necessary, the interconnection provider shall provide the interconnection customer an interconnection system impact study agreement within 5 business days of the determination of the need for the study including an outline of the scope of the study and a non-binding good faith estimate of the cost to perform the study.
- 2) Within 30 business days of receipt of the interconnection system impact study agreement or another mutually agreed upon time frame, the interconnection customer shall return an executed feasibility study agreement to the interconnection provider.
- 3) The Interconnection system impact study shall evaluate the impact of the proposed interconnection on the safety and reliability of the interconnection provider's distribution system. The study shall identify and detail the system impacts that would result if the distributed resource were interconnected without project modifications or system modifications, focusing on the adverse system impacts identified in the interconnection feasibility study, or to study potential impacts, including but not limited to those identified in the scoping meeting. The study will consider all generating facilities that, on the date the interconnection system impact study is commenced, are directly interconnected with the interconnection provider's system.
- 4) General. The interconnection system impact study will consider, as appropriate, a short circuit analysis, a stability analysis, a power flow analysis, voltage drop and flicker studies, protection and set point coordination studies, and grounding reviews. The interconnection system impact study will state the underlying assumptions of the study, show the results of the analyses, and list any potential impediments to providing the requested interconnection service. The study will indicate required upgrades and a non-binding good faith estimate of cost and time to construct.
- 5) Within 45 business days after the date that the interconnection provider receives an executed system impact study agreement the interconnection provider shall transmit an interconnection system impact study report to the interconnection customer. The report shall include detailed results of the system impact study and will include, if requested by the interconnection customer when the system impact study agreement was executed, a true up of the difference between the actual and estimated cost to perform the feasibility study.
- 6) An interconnection facilities study shall not be required if the interconnection feasibility study and/or the interconnection system impact

study indicates no adverse system impact or if it identifies an adverse system impact, but the interconnection provider is able to identify a remedy without the need for an interconnection facilities study. Otherwise an interconnection facilities study shall be required.

e) Interconnection Facilities Study

1) If an interconnection facilities study is necessary, the interconnection provider shall provide the interconnection customer an interconnection facilities study agreement within 5 business days after the determination that the study is required, including an outline of the scope of the facilities study and a non-binding good faith estimate of the cost to perform the study.

2) Within 30 business days of receipt of the interconnection facilities study agreement or another mutually agreed upon time frame, the interconnection customer shall return an executed facilities study agreement.

3) The interconnection facilities study shall specify and estimate the cost of the equipment, engineering, procurement and construction work (including overheads) needed to implement the conclusions of the interconnection feasibility study and interconnection system impact study to interconnect the distributed resource. The interconnection facilities study shall also identify: (1) the electrical switching configuration of the equipment, including, without limitation, transformer, switchgear, meters, and other station equipment, (2) the nature and estimated cost of the interconnection provider's interconnection facilities and upgrades necessary to accomplish the interconnection, and (3) an estimate of the time required to complete the construction and installation of such facilities.

4) Parties may agree to permit the interconnection customer to separately arrange for a third party to design and construct the required interconnection facilities. In such cases, interconnection provider may review the design of the facilities, under the provisions of the interconnection facilities study agreement. If the parties agree to separately arrange for design and construction, and comply with any security and confidentiality requirements, the interconnection provider shall make all relevant information available to interconnection customer in order to permit interconnection customer to obtain an independent design and cost estimate for the facilities.

5) Within 10 days after the later of either i) completion of the interconnection facilities study, or ii) the written agreement of interconnection customer to pay for any interconnection facilities and

upgrades identified in the interconnection facilities study, the interconnection provider shall issue the interconnection customer an executable interconnection agreement in the form set forth in Appendix C, and installation of the distributed resource shall proceed according to Section XXXX.100 of this Part.

- f) System upgrade payments. The interconnection provider and interconnection customer shall negotiate a payment schedule for all system upgrades to the interconnection provider's distribution system that are deemed the responsibility of the interconnection customer. Where applicable, the parties shall follow 83 Ill. Admin. Code Section 430.40(h) to establish a payment schedule.
- g) Payment for studies. The interconnection customer shall be required to pay the interconnection provider a minimum of 20% of the estimated cost of each required study at the time the interconnection customer signs the study agreement. Payment for the remainder of the study will be agreed to by both parties, but payment in full shall be required no later than 30 days after the completion of the study.
- h) Non-exporting distributed resources. If the distributed resource is designed so as to not export power, any modifications to the interconnection provider's interconnection facilities or distribution system are at the interconnection provider's discretion and expense.

Section XXX.100

Installation, Commissioning, and Testing

- a) Within 20 business days of the execution of the interconnection agreement under either the Expedited or Standard Interconnection process, the interconnection customer shall provide the interconnection provider with an estimate of the date on which the distributed resource shall be operational. The estimated date shall be no later than the latter of 18 months after the date that the interconnection agreement was executed or 18 months after the date that system or facility modifications were completed by the interconnection provider. Installation of the interconnection customer's distributed resource shall be completed as specified in the standardized application, the interconnection agreement, and any studies indicating a need to modify the interconnection customer's distributed resource. The interconnection customer shall inform the interconnection provider in writing when the installation of the distributed resource is complete. However, failure of the interconnection customer to meet the estimated date of operation shall not require reapplication for interconnection.
- b) Commissioning tests of an interconnection customer's installed distributed resource shall be performed pursuant to applicable codes and standards. The interconnection provider shall list all testing requirements in the

interconnection agreement. The interconnection customer shall give the interconnection provider 10 business days written notice, or another mutually agreed upon timeframe, as to when the tests are to be performed. The interconnection provider shall have the right to be present to complete the interconnection, inspect the interconnection customer's distributed resource for compliance with applicable codes and standards, and witness the commissioning tests. The interconnection provider shall assess no charges related to this initial inspection.

- c) If the inspection of the interconnection customer's distributed resource does not result in a finding that the distributed resource is in compliance with applicable codes and standards and the executed agreement, the interconnection provider shall provide written notification to the interconnection customer explaining why the distributed resource was not in compliance within five business days of the inspection. Within 30 business days of notification of non-compliance or another mutually agreed upon time, the interconnection customer shall address the non-compliance and notify the interconnection provider that it is prepared for another inspection. The inspection shall occur within 10 business days of the interconnection customer's request.
- d) The interconnection provider shall require testing of the interconnection customer equipment no more frequently than it tests its own equipment.

Section XXX.110 Metering

Any metering necessitated by the use of the distributed resource shall be installed in accordance with state regulatory requirements and the interconnection provider's electric tariffs except that, unless mutually agreed to between the interconnection customer and the interconnection provider, the interconnection provider shall not require installation of a meter on distributed resources with a nameplate capacity rating of 100 KW or less.

Section XXX.120 Contact Persons and Information

- a) The interconnection provider and interconnection customer shall designate a person or persons who shall serve as their respective interconnection contacts for all matters related to distributed resource interconnection.
- b) Each interconnection provider shall identify its distributed resource contact person to the Illinois Commerce Commission's Director of the Consumer Services Division and Director of the Energy Division.
- c) Each interconnection provider shall provide convenient access through its Internet web site to the names, telephone numbers, mailing addresses

and electronic mail addresses of its distributed resource contact employees or office.

- d) To assist an interconnection customer in the interconnection process, the interconnection provider shall make available information on the application process and on the interconnection provider's distribution system, including but not limited to relevant system studies, interconnection studies, minimum and maximum line load, line capacity, and number and size of customers on line sections. The interconnection provider shall comply with requests for such information if the interconnection customer agrees to comply with applicable confidentiality requirements.

Section XXX.130 Reporting Requirements

- a) Each interconnection provider shall maintain records concerning applications received for interconnection and parallel operation of distributed generation. Such records shall include the date each application is received, all documents generated in the course of processing each application, correspondence regarding each application, and the final disposition of each application.
- b) The interconnection provider shall make available information, including single-line diagrams of all existing and pending interconnections unless the diagrams are redundant, other details of existing and pending interconnections, and generic single-line diagrams, on the interconnection provider's Internet web site. Such information shall include, but not be limited to, the number, type, and location of relays, voltage level at the point of interconnection and on adjacent lines, location, size, type and fuel source for each distributed resource, metering, and inverters. Nothing shall preclude the interconnection customer from submitting, and the interconnection provider from approving, interconnection applications that propose interconnections that vary from the information listed on the interconnection provider's web site. Each interconnection provider shall update the information required by this subsection at least once every three months.

Section XXX.140 Dispute Resolution Process

- a) Step One: Good Faith Negotiation
 - 1) One party submits a request in writing to the other party to initiate the dispute resolution process. The parties will elevate the dispute to a vice president or senior management person with sufficient authority to make a decision.

2) If, after 10 business days, the dispute is still not resolved, one or both parties may initiate the process under Section XXX.140(b).

b) Step Two: Mediation/Non-binding Arbitration

1) If the parties fail to resolve the dispute by following the process set forth in Section XXX.140(a), one party to the dispute may request dispute resolution assistance by submitting a written request for assistance to the Commission, clearly stating the nature of the dispute. The other party may submit a response within 10 business days.

2) Within 10 business days after submitting the request, unless all of the parties agree to a later date, the parties shall meet with designated Commission staff. During that meeting, the designated Commission staff person may assist the parties in attempting to resolve outstanding differences.

3) If the differences are not resolved, the Commission will provide a list of qualified neutral arbitrators and manage the selection of individual neutral arbitrators for the case. The Commission will use a list of pre-qualified neutral arbitrators maintained at the Commission and the parties will select a mutually agreeable mediator using a reverse-strike-out process or another mutually agreeable method. If either party requests a technical expert, both a mediator and a technical expert will be selected, and the technical expert will be selected using the same reverse-strike-out process or another mutually agreeable method.

4) Parties will complete the selection process within 5 business days.

5) The Commission will arrange for the selected mediator to contact the parties.

6) The parties will contract with a mediator for services, splitting the fees equally between each party.

7) Within 5 business days after being contracting by the Commission, the mediator shall discuss the case with the disputing parties to assess the scope of issues and understand the parties' positions and interests. The mediator and parties will establish a schedule for completion of mediation within 30 business days. The mediator will also assist the parties in estimating the costs of alternative dispute resolution and addressing any concerns about those costs. If the Parties do not reach a mediated agreement, the mediator will issue a brief recommended solution or decision.

- c) Step Three: Complaint. If one or both parties do not accept the mediator's recommendation and there is still no agreement, either party may file a formal complaint pursuant to the procedures in 83 Ill. Admin. Code Section 200.170.

Section XXX.150 Compliance

No later than 30 days after the effective date of this Part as amended, each interconnection provider shall file a tariff or tariffs for interconnection and parallel operation of distributed resources in conformance with the provisions of this Part. The utility shall file a new tariff or a modification of an existing tariff. Concurrent with the tariff filing required by this section, each utility shall submit:

- a) A cost schedule, together with all supporting data, for the studies that may be necessary under the Standard Interconnection Procedures of this Part;
- b) Applications and agreements conforming to the Appendices of this Part.